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DHCP with encryption - SUSE Forums

I have no trouble connecting to my AP when I do not use **encryption**. When I use **encryption**, I can associate with the AP, but I do not get an IP via **DHCP**. ...
suseforums.net/index.php?showtopic=16076 - 47k - [Cached](#) - [Similar pages](#)

[Pardus-announce] [Pardus 2007] Updates - 16.04.2007

... fixes rt2570 [1.1.0_7-38] -- **DHCP and encryption** fixes. ati-drivers [8.34.8-14-13] ...
DHCP and wep/wpa fixes. rt2400 [1.2.2_8-40] -- **DHCP** fixes. rt73 ...
ftp.pardus.org.tr/pardus-announce/2007-April/000020.html - 11k - [Cached](#) - [Similar pages](#)

[\[GZIP\]](#) **From ekin at pardus.org.tr Tue Apr 3 10:35:19 2007 From: ekin at ...**

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... lame [3.97-8-7] Album tag support, mp3 **encryption** fixes. rt2570 [1.1.0_7-38] --
DHCP and encryption fixes. ati-drivers [8.34.8-14-13] ov51x-jpeg ...
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System Administrator job in karachi, Pakistan,karachi : Find Jobs ...

System Administration Active Directory/SQL/Exchange/IIS/DNS/DHCP . **Encryption** .
Public, private, symmetric and secret keys . Technically updated and strong ...
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No DHCP on Broadcom Wireless NIC when using encryption - TechNet ...

No DHCP on Broadcom Wireless NIC when using **encryption** Thread Starter: Cyberwizzard
Started: 26 Oct 2006 6:38 PM UTC Replies: 2 ...
forums.microsoft.com/TechNet>ShowPost.aspx?PostID=863519&SiteID=17 - 88k -
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Glossary

DHCP Encryption MetroFi Access Point RSSI SSID WEP Wireless Modem WPA VPN
802.1x The newest authentication standard for wireless networks used to identify ...
www.metrofi.com/faq_glossary.html - 18k - [Cached](#) - [Similar pages](#)

DHCP wireless network Content at ZDNet UK

Reviews Make sure all the network settings between the client and access point match, including SSID, **DHCP and encryption**. To make installation easier, ...
www.zdnet.co.uk/tsearch/DHCP+wireless+network.htm - 62k - [Cached](#) - [Similar pages](#)

[PDF] Network firewalls Network firewalls

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DHCP, hardware encryption. Firewall, EN, Fast EN, two ports, VPN, DHCP; supports NAT.
Firewall, EN, Fast EN, two ports, VPN, hardware IPsec acceleration ...
www.gcn.com/newspics/G18perip20-22.pdf - [Similar pages](#)

Universal access multimedia data network - US Patent 6101182

The customer or subscriber going on-line communicates with the **DHCP** using **encryption** and preferably public/private key **encryption** to both authenticate the ...
www.patentstorm.us/patents/6101182.html - 16k - [Cached](#) - [Similar pages](#)

Wireless Networking - dhcp server is there and then it isn't!

wep encryption on - connected to AP but DHCP server unavailable...why? ... >wep
encryption off - assigned an IP address via DHCP ...
hardware.mcse.ms/archive80-2004-7-41204.html - 16k - Cached - Similar pages

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[\[ipw2100 \] :: can't connect - Ubuntu Forums](#)

Am I right in that you are using **DHCP**, no **encryption/authentication** (e.g. WEP) with your ESSID being "ipw2100"? Have you installed a firewall such as ...
[ubuntuforums.org/showthread.php?t=274301](#) - [Similar pages](#)

[Wireless WEP encryption - LinuxQuestions.org](#)

How can I set **WEP Encryption**? yjftwo, Linux - Wireless Networking, 4, 09-14-2004 03:53 AM. Wireless - **DHCP no encryption / WEP**, Oxyacetylene ...
[www.linuxquestions.org/questions/linux-security-4/wireless-wep-encryption-320286/](#) - 45k - [Cached](#) - [Similar pages](#)

[Mark Dersom | Loft22](#)

Need Solution: Linksys WAP11 DHCP with **Encryption Enabled**. I've done a bit of searching on this over the past few months, including posting to Linksys ...
[www.loft22.com/index.php?p=tech-y_ideas](#) - [Similar pages](#)

[Enterprise Encryption Server \(EES\)](#)

Determine the **DHCP** assigned IP address by typing "ifconfig | grep inet" the IP ... The appliance has been pre-configured with an "**FTP encryption route**" that ...
[www.vmware.com/appliances/directory/138](#) - 13k - [Cached](#) - [Similar pages](#)

[Wireless networking 101 - CNET reviews](#)

Make sure all the network settings between the client and access point match, including **SSID, DHCP, and encryption**. Check the sequence of status lights on ...
[chicagotribune.com.com/4520-3243_7-5021297-4.html](#) - 39k - [Cached](#) - [Similar pages](#)

[Wireless LAN Connectivity using an ISR with WEP Encryption and ...](#)

The internal Dynamic Host Configuration Protocol (**DHCP**) server on the 870 router is used to provide an IP address to the wireless clients. **WEP encryption** is ...
[www.cisco.com/en/US/tech/tk722/tk809/technologies_configuration_example09186a0080608364.shtml](#) - 34k - [Cached](#) - [Similar pages](#)

[Wireless: 128b strong encryption cannot obtain IP address via DHCP](#)

I have no problem with a wired connection getting out to the Internet. I use automatic settings with **DHCP**. I am running version 1.6 as my initial.
[www.ps3chat.com/.../1489-wireless-128b-strong-encryption-cannot-obtain-ip-address-via-dhcp.html](#) - 89k - [Cached](#) - [Similar pages](#)

[Mac networking woes - Tech Support Forum](#)

IP is fixed value and gateway address is set to that of the router (no **DHCP**) **Encryption** is off (removed **encryption** from my router to match for the time) ...
[www.techsupportforum.com/networking-forum/networking-support/140077-mac-networking-woes.html](#) - 33k - [Cached](#) - [Similar pages](#)

[WPA-PSK DHCP issue on Linksys WRT54G - WiFi-Forum](#)

setup -- 128bit. However, when the router is configured with **WPA PSK encryption**, only one client successfully completes **DHCP** registration. The other is ...

www.wifi-forum.com/wf/showthread.php?t=65115 - 54k - [Cached](#) - [Similar pages](#)

[how to configure a router, ssid broadcast, how to configure a dhcp ...](#)

The DHCP (Dynamic Host Configuration Protocol) Server is a feature of most routers ... All

wireless components support some sort of **encryption**, which simply ...

www.geeks.com/techtips/2005/techtips-28MAR05.htm - 25k - [Cached](#) - [Similar pages](#)

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DHCP and encryption

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[Cisco Systems Inc. | Routers - CNET Shopper.com](#)

... IEEE 802.1x, External, NAT support, PAT support, VPN support, **DHCP support**, IPv6 support, Traffic shaping, Firewall protection, **Hardware encryption**, ... shopper.cnet.com/4566-3319_9-0.html?filter=1000036_5246755_-204k - [Cached](#) - [Similar pages](#)

[Networking and Wi-Fi - JUNOS - ZDNet Reviews](#)

... VPN support, **DHCP support**, IPv6 support, LDAP support, MPLS support, VLAN support, ... Firmware upgradable, **Hardware encryption**, DoS attack prevention, ... review.zdnet.com/4566-3243_16-0.html?filter=500016_12224989_-50k - [Cached](#) - [Similar pages](#)

[FedoraForum.org - Another Intel 2200bg Problem \(WEP, **DHCP** Problem\)](#)

They use **DHCP** with 128bit **WEP encryption** so I dont have the luxury of setting a static IP address, even when I did set a static address with **WEP** on, ... forums.fedoraforum.org/showthread.php?t=87055 - 43k - [Cached](#) - [Similar pages](#)

[cannot connect to wifi network \[Archive\] - FirstLoox.org - Forums](#)

DHCP is enabled on the cable modem and on the Linksys (with autodetect LAN **DHCP**). - **Encryption** is off, MAC filtering off, WiFi is mixed-mode (B/G). ... www.firstloox.org/forums/archive/index.php?t-6139.html - 6k - [Cached](#) - [Similar pages](#)

[Apple - Support - Discussions - Problems connecting my Powerbook ...](#)

128 bit (HEX) **WEP Encryption** (Key Index 4) MAC Filtering "Static" **DHCP** Here's what i've done: ... They are using a Linksys with **DHCP and encryption**. ... discussions.apple.com/thread.jspa?messageID=2369791 - 31k - [Cached](#) - [Similar pages](#)

[wireless-gtkdialog 0000755 0000000 0000000 00000021022 10711420575 ...](#)

565 300 TABLE Cell |ESSID|Mode|Channel|Quality|**Encryption** " while ["\$a" != running **DHCP** to try and obtain an IP address. Running **DHCP** ... www.murga-linux.com/puppy/viewtopic.php?mode=attach&id=6321&sid=1d8a01848d3fab16c18afb940cd69e09 - 21k - [Cached](#) - [Similar pages](#)

[assign dhcp Content at ZDNet UK](#)

Make sure all the network settings between the client and access point match, including **SSID, DHCP and encryption**. [\[Find Related Articles\]](#) ... www.zdnet.co.uk/tsearch/assign+dhcp.htm - 54k - [Cached](#) - [Similar pages](#)

[WAP54G **DHCP** Issues - Access Points - Linksys Community Forums](#)

However I cannot obtain a **DHCP** address. Other computers, including the laptop can ... AES stands for **Advanced Encryption System**, which utilizes a symmetric ... forums.linksys.com/linksys/board/message?board.id=Access_Points&message.id=2369 - 53k - [Cached](#) - [Similar pages](#)

[Not able to get sound card and internet connected | MEPIS](#)

Is your router setup for **DHCP** without **encryption** running? ... (I'm not using any **encryption** and have the router setup for **DHCP**). ... www.mepis.org/node/13123 - 80k - [Cached](#) - [Similar pages](#)

DHCP client impersonation for VPN tunnels - Patent 20060206934

Such configuration parameters consist of **encryption** protocols, end point internet ... Then the VPN server requests an IP address from the **DHCP** server. ...
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Relevance scale **1** Wireless troubleshooting: WiFiProfiler: cooperative diagnosis in wireless LANs Ranveer Chandra, Venkata N. Padmanabhan, Ming ZhangJune 2006 **Proceedings of the 4th international conference on Mobile systems, applications and services MobiSys 2006**

Publisher: ACM Press

Full text available:  [pdf\(404.12 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

While 802.11-based wireless hotspots are proliferating, users often have little recourse when the network does not work or performs poorly *for them*. They are left trying to manually debug the problem, which can be a frustrating and disruptive process. The users' troubles are compounded by the absence of network administrators or an IT department to turn to in many 802.11 hotspot settings (e.g., cafes, airports, conferences). We present WiFiProfiler, a system in which wireless hosts coopera ...

Keywords: 802.11, fault diagnosis, peer-to-peer performance problems, wireless networks

2 Smart wireless association: Improved access point selection Anthony J. Nicholson, Yatin Chawathe, Mike Y. Chen, Brian D. Noble, David WetherallJune 2006 **Proceedings of the 4th international conference on Mobile systems, applications and services MobiSys 2006**

Publisher: ACM Press

Full text available:  [pdf\(451.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents Virgil, an automatic access point discovery and selection system. Unlike existing systems that select access points based entirely on received signal strength, Virgil scans for all available APs at a location, quickly associates to each, and runs a battery of tests to estimate the quality of each AP's connection to the Internet. Virgil also probes for blocked or redirected ports, to guide AP selection in favor of preserving application services that are currently in use. Resu ...

Keywords: 802.11, access point selection, opportunistic connectivity, public networks, wireless networking

3On the Design of Virtual Machine Sandboxes for Distributed Computing in Wide-area Overlays of Virtual Workstations

David Isaac Wolinsky, Abhishek Agrawal, P. Oscar Boykin, Justin R. Davis, Arijit Ganguly, Vladimir Paramygin, Y. Peter Sheng, Renato J. Figueiredo

November 2006 **Proceedings of the 2nd International Workshop on Virtualization Technology in Distributed Computing VTDC '06**

Publisher: IEEE Computer Society

Full text available:  [pdf\(388.81 KB\)](#)

 [Publisher Site](#)

Additional Information: [full citation](#), [abstract](#)

With recent advances in virtual computing and the revelation that compute-intensive tasks run well on system virtual machines (VMs), the ability to develop, deploy, and manage distributed systems has been ameliorated. This paper explores the design space of VM-based sandboxes where the following techniques that facilitate the deployment of secure nodes in Wide-area Overlays of virtual Workstations (WOWs) are employed: DHCP-based virtual IP address allocation, self-configuring virtual networks su ...

4 Using DHCP with computers that move0 

Charles E. Perkins, Kevin Luo

August 1995 **Wireless Networks**, Volume 1 Issue 3

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(1.10 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The Dynamic Host Configuration Protocol (DHCP) was designed to allow the frequent allocation of resources and configuration information useful to Internet hosts at boot time, including Internet addresses in particular. It turns out that getting a new Internet address is crucial to the problem of enabling the movement of Internet hosts from one network to another, and thus DHCP is quite relevant to the problem of providing seamless, transparent mobility to Internet hosts. We decided to inves ...

5 Best poster papers from MobiHoc 2002: Virtual operator based AAA in wireless LAN 

 **hot spots with ad-hoc networking support**

Junbiao Zhang, Jun Li, Stephen Weinstein, Nan Tu

June 2002 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 6 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(180.11 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Sound and effective authentication, authorization and accounting (AAA) schemes for convenient and secure mobile wireless accesses are of great importance given the increased popularity and business opportunities in public wireless LAN hot spots. One possible scheme, which uses the mobile users' service providers as the single point of contact for all AAA transactions, is emerging as a very promising solution. We refer to such service providers as "virtual operators". In this paper, we discuss va ...

6 Location, tracking, nomadic computing: A bluetooth infrastructure for automatic services access in ubiquitous and nomadic computing environments 

Massimo Ficco, Maurizio D'Arienzo, Gianni D'Angelo

October 2007 **Proceedings of the 5th ACM international workshop on Mobility management and wireless access MobiWac '07**

Publisher: ACM

Full text available:  [pdf\(964.58 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The proliferation of mobile devices and wireless technologies pave the ground to new scenarios that attract the interest of service providers and business operators. However, to let mobile users able to receive the same services independently from the context in which they operate, several open issues need to be solved. One of these issues is related to the current levels of security that often require mobile users to exchange secret

credentials with the network operators or an authentication ...

Keywords: Bluetooth, authentication, context-aware, ubiquitous computing, wireless LAN access

7 Automating cross-layer diagnosis of enterprise wireless networks

 Yu-Chung Cheng, Mikhail Afanasyev, Patrick Verkaik, Péter Benkő, Jennifer Chiang, Alex C. Snoeren, Stefan Savage, Geoffrey M. Voelker
August 2007 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2007 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '07**, Volume 37 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(1.36 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Modern enterprise networks are of sufficient complexity that even *simple* faults can be difficult to diagnose - let alone transient outages or service degradations. Nowhere is this problem more apparent than in the 802.11-based wireless access networks now ubiquitous in the enterprise. In addition to the myriad complexities of the wired network, wireless networks face the additional challenges of shared spectrum, user mobility and authentication management. Not surprisingly, few organiz ...

Keywords: 802.11, measurement, modeling, wireless networks

8 Secure wireless gateway

 Austin Godber, Partha Dasgupta
September 2002 **Proceedings of the 1st ACM workshop on Wireless security WiSE '02**

Publisher: ACM Press

Full text available:  [pdf\(208.45 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Wireless LANs (WLAN), using the IEEE 802.11b standard, have been shown to be inherently insecure. Given the widespread use of this type of WLAN for public and corporate access, it is important to have an "idiot proof" method for securing WLAN from hacking, sniffing, and unauthorized access. In this paper, we present a simple solution using IPSEC that provides an inexpensive, easy to implement, wireless gateway, and an access point that is secure. The client configuration involves no additional so ...

Keywords: 802.11b, IPsec, wireless LAN

9 Wireless LAN security and laboratory designs

Yasir Zahur, T. Andrew Yang
January 2004 **Journal of Computing Sciences in Colleges**, Volume 19 Issue 3

Publisher: Consortium for Computing Sciences in Colleges

Full text available:  [pdf\(181.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

For the past couple of years, increasing number of wireless local area networks (WLANs), based on the IEEE 802.11 protocols, have been deployed in various types of locations, including homes, schools, airports, business offices, government buildings, military facilities, coffee shops, book stores, as well as many other venues. One of the primary advantages offered by WLAN is its ability to provide untethered connectivity to portable devices, such as wireless laptops and PDAs. In some remote comm ...

10 Lightweight key management for IEEE 802.11 wireless LANs with key refresh and

host revocation

Avishai Wool

November 2005 **Wireless Networks**, Volume 11 Issue 6

Publisher: Kluwer Academic Publishers

Full text available:  pdf(466.01 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The IEEE 802.11 Wireless LAN standard has been designed with very limited key management capabilities, using up to 4 static, long term, keys, shared by all the stations on the LAN. This design makes it quite difficult to fully revoke access from previously-authorized hosts. A host is fully revoked when it can no longer eavesdrop and decrypt traffic generated by other hosts on the wireless LAN. This paper proposes WEP*, a lightweight solution to the host-revocation problem. The key mana ...

Keywords: authentication, security

11 Securing a wireless network

 Jon Allen, Jeff Wilson

November 2002 **Proceedings of the 30th annual ACM SIGUCCS conference on User services SIGUCCS '02**

Publisher: ACM Press

Full text available:  pdf(129.35 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Driven by pressure to facilitate mobile computing, universities are plunging into wireless networking. Although wireless offers convenience and low-cost deployment, it lacks any inherent means of strong security. Common methods of securing wireless networks include WEP, VPN, MAC registration, IEEE 802.1x, and Firewalls. Each method offers some security, but at varying levels of complexity, convenience, cost effectiveness and completeness. Each security method has its own drawbacks.

Keywords: 802.11i, 802.1x, EAP-LEAP, EAP-MD5, EAP-TLS, EAP-TTLS, VPN, WEP

12 Security and privacy: 802.11 user fingerprinting

 Jeffrey Pang, Ben Greenstein, Ramakrishna Gummadi, Srinivasan Seshan, David Wetherall
September 2007 **Proceedings of the 13th annual ACM international conference on Mobile computing and networking MobiCom '07**

Publisher: ACM Press

Full text available:  pdf(498.09 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The ubiquity of 802.11 devices and networks enables anyone to track our every move with alarming ease. Each 802.11 device transmits a globally unique and persistent MAC address and thus is trivially identifiable. In response, recent research has proposed replacing such identifiers with pseudonyms (i.e., temporary, unlinkable names). In this paper, we demonstrate that pseudonyms are insufficient to prevent tracking of 802.11 devices because implicit identifiers, or identifying characteristics ...

Keywords: 802.11, anonymity, privacy, wireless

13 Wireless networking security: 802.11b access point mapping

 Simon Byers, Dave Kormann

May 2003 **Communications of the ACM**, Volume 46 Issue 5

Publisher: ACM Press

Full text available:  pdf(151.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
 html(30.48 KB)

Considering some of the practical issues encountered when finding and mapping wireless network access points.

14 DoS and authentication in wireless public access networks

 Daniel B. Faria, David R. Cheriton

September 2002 **Proceedings of the 1st ACM workshop on Wireless security WiSE '02**

Publisher: ACM Press

Full text available:  [pdf\(272.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

As WEP has been shown to be vulnerable to multiple attacks, a huge effort has been placed on specifying an access control mechanism to be used in wireless installations. However, properties of the wireless environment have been exploited to perform multiple DoS attacks against current solutions, such as 802.11/802.1X. In this paper we discuss the main wireless idiosyncrasies and the need for taking them into account when designing an access control mechanism that can be used in both wireless and ...

Keywords: DoS, security, wireless networks

15 Using Linux to solve the problem of mixed operating system LAN services

 Daniel W. Drake

November 1997 **Proceedings of the 25th annual ACM SIGUCCS conference on User services: are you ready? SIGUCCS '97**

Publisher: ACM Press

Full text available:  [pdf\(840.40 KB\)](#) Additional Information: [full citation](#), [index terms](#)

16 Review: the Sharp Zaurus SL-C700

Guylhem Aznar

June 2003 **Linux Journal**, Volume 2003 Issue 110

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(16.96 KB\)](#) Additional Information: [full citation](#), [index terms](#)

17 Pattern matching and parsing: Efficient sequence alignment of network traffic

Christian Kreibich, Jon Crowcroft

October 2006 **Proceedings of the 6th ACM SIGCOMM conference on Internet measurement IMC '06**

Publisher: ACM

Full text available:  [pdf\(398.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

String comparison algorithms, inspired by methods used in bioinformatics, have recently gained popularity in network applications. In this paper we demonstrate the need for careful selection of alignment models if such algorithms are to yield the desired results when applied to network traffic. We introduce a novel variant of the Jacobson-Vo algorithm employing a flexible gap-minimising alignment model suitable for network traffic, and find that our software implementation outperforms the common ...

Keywords: sequence alignment, sequence analysis, traffic monitoring

18 Location tracking: A secure P2P architecture for location management

Kaouthar Sethom, Khaled Masmoudi, Hossam Afifi

May 2005 **Proceedings of the 6th international conference on Mobile data management MDM '05**

Publisher: ACM Press

Full text available:  [pdf\(141.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Networking and computing have become so tied and have naturally integrated our daily life and are evolving to a ubiquitous and transparent interaction between users and information. Distributed and collaborative architectures particularly P2P solutions, proved to be the most efficient way to meet the requirements of pervasive computing. However, many security and mobility issues have to be considered. In this paper, we propose a secure architecture for location management in mobile environments. ...

Keywords: P2P, location management, pervasive computing, security

19 Wireless home music broadcasting-modifying the NSLU2 to unleash your music!

John MacMichael

January 2006 **Linux Journal**, Volume 2006 Issue 141

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(15.59 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Don't trip over wires in your home just to listen to your MP3s. Attach a Roku Labs SoundBridge to a Network Attached Storage device to broadcast the music to your stereo.

20 Security: Enhancing the security of corporate Wi-Fi networks using DAIR

 Paramvir Bahl, Ranveer Chandra, Jitendra Padhye, Lenin Ravindranath, Manpreet Singh, Alec Wolman, Brian Zill

June 2006 **Proceedings of the 4th international conference on Mobile systems, applications and services MobiSys 2006**

Publisher: ACM Press

Full text available:  [pdf\(302.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a framework for monitoring enterprise wireless networks using desktop infrastructure. The framework is called DAIR, which is short for *Dense Array of Inexpensive Radios*. We demonstrate that the DAIR framework is useful for detecting rogue wireless devices (e.g., access points) attached to corporate networks, as well as for detecting Denial of Service attacks on Wi-Fi networks. Prior proposals in this area include monitoring the network via a combination of access points (APs), m ...

Keywords: 802.11, denial-of-service, rogue AP, security, wireless networks

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21 Paranoid penguin: securing WLANs with WPA and FreeRADIUS, Part I 

Mick Bauer

April 2005 **Linux Journal**, Volume 2005 Issue 132

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(14.23 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#), [review](#)



22 A self-configuring and self-administering name system with dynamic address 

 **assignment**

February 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(908.57 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In this article we present a distributed system that stores name-to-address bindings and provides name resolution to a network of computers. This name system consists of a network of name services that are individually self-configuring and self-administering. The name service consists of an agent program that works in conjunction with the current implementation of the Domain Name System (DNS) program. The DNS agent program automatically configures the Berkeley Internet Name Domain (BIND) process ...

Keywords: Berkeley Internet Name Domain, dynamic reconfiguration, name-to-name address binding, self-administering systems, self-configuring systems

23 Reviews: Cyclades AlterPath manager E200 

Matthew Hoskins

May 2005 **Linux Journal**, Volume 2005 Issue 133

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(15.00 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)



24 Features: The Family Dynamics of 802.11 

 May 2003 **Queue**, Volume 1 Issue 3

Publisher: ACM Press

Full text available: [!\[\]\(869f8db8cb6058a4d20fc99f4521bf06_img.jpg\) pdf\(622.71 KB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)
[!\[\]\(a66a83d8bbf1163be0390378a813901a_img.jpg\) html\(41.31 KB\)](#)

25 PoPToP, a Secure and Free VPN Solution

Matthew Ramsay

June 2000 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available: [!\[\]\(7a315dbd5736d1ca324577d88145843b_img.jpg\) html\(11.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

When the expense of a remote access server is no longer attractive, it's time to look at the solution offereda VPN.

26 Setting up a VPN gateway

Duncan Napier

January 2002 **Linux Journal**, Volume 2002 Issue 93

Publisher: Specialized Systems Consultants, Inc.

Full text available: [!\[\]\(528617bae5d4722c747678f5759aceb1_img.jpg\) html\(24.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

A minimum inverstment VPN--the micro DUCLINGdistribution.

27 New products

Linux Journal Staff

December 2004 **Linux Journal**, Volume 2004 Issue 128

Publisher: Specialized Systems Consultants, Inc.

Full text available: [!\[\]\(55565783cc6bed40097b4839bf03f6a2_img.jpg\) html\(6.63 KB\)](#) Additional Information: [full citation](#)

28 Security I: An isolated, multi-platform network sandbox for teaching IT security

system engineers

Gordon W. Romney, Brady R. Stevenson

October 2004 **Proceedings of the 5th conference on Information technology education CITC5 '04**

Publisher: ACM Press

Full text available: [!\[\]\(7c9c5ce8bcacfadbf2cd1b5c92244649_img.jpg\) pdf\(399.70 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The objective of this paper is to describe the successful deployment and operation of a student managed, isolated network "Sandbox" laboratory used for teaching Information Technology (IT) Security System Engineers. Laboratories for training Network Engineers have previously been deployed in IT education, frequently using a standard operating system base configuration in order to facilitate re-imaging for new classes. We have elected to employ a mujlti-platform environment that utilizes bothW ...

Keywords: collaborative student teaching, curricula, data privacy, information assurance, information technology, security best practices, security laboratory, security system engineer

29 Melange: creating a "functional" internet

Anil Madhavapeddy, Alex Ho, Tim Deegan, David Scott, Ripduman Sohan

March 2007 **ACM SIGOPS Operating Systems Review , Proceedings of the ACM SIGOPS/EuroSys European Conference on Computer Systems 2007 EuroSys '07**, Volume 41 Issue 3

Publisher: ACM

Full text available:  pdf(760.25 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Most implementations of critical Internet protocols are written in type-unsafe languages such as C or C++ and are regularly vulnerable to serious security and reliability problems. Type-safe languages eliminate many errors but are not used to due to the perceived performance overheads.

We combine two techniques to eliminate this performance penalty in a practical fashion: strong static typing and generative meta-programming. Static typing eliminates run-time type information by checkin ...

30 Mobile IPv6 network: implementation and application 

Jiann-Liang Chen, Yu-Feng Lee, Yao-Chung Chang

January 2006 **International Journal of Network Management**, Volume 16 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available:  pdf(468.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recently, the world has become increasingly mobile, and people have started communicating by wireless networking. Mobile IPv6 enables mobile users to communicate with each other while moving. In this study, a mobile IPv6 network was implemented by the IEEE 802.11 specification, and its performance was analyzed using TCP and UDP applications. The experimental results indicate that throughput stabilized for UDP applications after about 6-14 seconds. However, TCP applications were found to stabilize ...

31 Mobile services: Reincarnating PCs with portable SoulPads 

 Ramón Cáceres, Casey Carter, Chandra Narayanaswami, Mandayam Raghunath

June 2005 **Proceedings of the 3rd international conference on Mobile systems, applications, and services MobiSys '05**

Publisher: ACM Press

Full text available:  pdf(199.97 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

The ability to walk up to any computer, personalize it, and use it as one's own has long been a goal of mobile computing research. We present *SoulPad*, a new approach based on carrying an auto-configuring operating system along with a suspended virtual machine on a small portable device. With this approach, the computer boots from the device and resumes the virtual machine, thus giving the user access to his personal environment, including previously running computations. *SoulPad* has ...

32 Mobility optimization: Optimized FMIPv6 handover using IEEE802.21 MIH services 

 Qazi Bouland Mussabir, Wenbing Yao

December 2006 **Proceedings of first ACM/IEEE international workshop on Mobility in the evolving internet architecture MobiArch '06**

Publisher: ACM Press

Full text available:  pdf(464.74 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The emerging IEEE802.21 standard defines Media Independent Handover Functions (MIHF) that assist mobile nodes to seamlessly roam across heterogeneous access networks. The aim of this paper is to present a mechanism which uses existing IEEE802.21 MIH services to optimize the Fast Handovers for Mobile IPv6 (FMIPv6) procedure. For this, we have exploited the 802.21 Information services in particular to tackle issues such as radio access discovery and candidate access router discovery which are critical ...

33 Best of technical support 

Linux Journal Staff

April 2005 **Linux Journal**, Volume 2005 Issue 132

Publisher: Specialized Systems Consultants, Inc.

Full text available: [html\(27.74 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

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34 Computing curricula 2001

 September 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

Full text available: [pdf\(613.63 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
[html\(2.78 KB\)](#)



35 Testbed directions and experience: PlanetLab: an overlay testbed for broad-coverage

 **services**

Brent Chun, David Culler, Timothy Roscoe, Andy Bavier, Larry Peterson, Mike Wawrzoniak, Mic Bowman

July 2003 **ACM SIGCOMM Computer Communication Review**, Volume 33 Issue 3

Publisher: ACM Press

Full text available: [pdf\(158.92 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

PlanetLab is a global overlay network for developing and accessing broad-coverage network services. Our goal is to grow to 1000 geographically distributed nodes, connected by a diverse collection of links. PlanetLab allows multiple service to run concurrently and continuously, each in its own slice of PlanetLab. This paper describes our initial implementation of PlanetLab, including the mechanisms used to implement virtualization, and the collection of core services used to manage PlanetLab.



36 AAA architecture for mobile IPv6 based on WLAN

R. C. Wang, R. Y. Chen, Han-Chieh Chao

September 2004 **International Journal of Network Management**, Volume 14 Issue 5

Publisher: John Wiley & Sons, Inc.

Full text available: [pdf\(177.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Mobility support for Internet devices is quite important for consumer electronics. The number of the hand-held devices is growing quickly. However, there are not enough IP addresses for the number of the rapidly growing devices in the All-IP generation. Internet Protocol version 6 (IPv6) was therefore adopted to solve these problems. Our proposed structure is based on IEEE 802.11. However, IEEE 802.11 has a serious security drawback. Further, from the Internet Service Providers' point of view, a ...



37 Application-layer mobility using SIP

 Henning Schulzrinne, Elin Wedlund

July 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 3

Publisher: ACM Press

Full text available: [pdf\(1.34 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Supporting mobile Internet multimedia applications requires more than just the ability to maintain connectivity across subnet changes. We describe how the Session Initiation Protocol (SIP) can help provide terminal, personal, session and service mobility to applications ranging from Internet telephony to presence and instant messaging. We also briefly discuss application-layer mobility for streaming multimedia applications initiated by RTSP.

38 BlueSky: a cordless networking solution for palmtop computers

 Pravin Bhagwat, Ibrahim Korpeoglu, Chatschik Bisdikian, Mahmoud Naghshineh, Satish K. Tripathi

August 1999 **Proceedings of the 5th annual ACM/IEEE international conference on Mobile computing and networking MobiCom '99**

Publisher: ACM Press

Full text available:  [pdf\(1.31 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

**39 Linux-powered wireless hot spots**

Mike Kershaw

September 2003 **Linux Journal**, Volume 2003 Issue 113

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(15.76 KB\)](#) Additional Information: [full citation](#), [abstract](#)

Put a convenient authentication system on your access point with free software.

**40 Best of technical support**

Linux Journal Staff

April 2003 **Linux Journal**, Volume 2003 Issue 108

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(9.04 KB\)](#) Additional Information: [full citation](#), [index terms](#)

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